



NSAI
Standards

Irish Standard

I.S. EN 50131-13:2020&AC:2021-04

Alarm systems - Intrusion and hold-up systems - Part 13: Pyrotechnic Obscuration Security Devices

I.S. EN 50131-13:2020&AC:2021-04

Incorporating amendments/corrigenda/National Annexes issued since publication:

EN 50131-13:2020/AC:2021-04

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I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

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SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

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NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W NSAI.ie

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

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National Foreword

I.S. EN 50131-13:2020&AC:2021-04 is the adopted Irish version of the European Document EN 50131-13:2020, Alarm systems - Intrusion and hold-up systems - Part 13: Pyrotechnic Obscuration Security Devices

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

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Corrigendum to EN 50131-13:2020

English version

In 13.3.2, please delete the text under b) and replace with the following text:

"The IHAS should be in unset condition. The POD shall be installed without consumable or with a dummy."

April 2021

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EUROPEAN STANDARD

EN 50131-13

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2020

ICS 13.320

English Version

Alarm systems - Intrusion and hold-up systems - Part 13: Pyrotechnic Obscuration Security Devices

Systèmes d'alarme - Systèmes d'alarme contre l'intrusion et
les hold-up - Partie 13: Dispositifs de sécurité
pyrotechniques à pouvoir opacifiant

Alarmanlagen - Einbruch- und Überfallmeldeanlagen - Teil
13: Pyrotechnisches Verrauchungs-Gerät

This European Standard was approved by CENELEC on 2020-01-27. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 50131-13:2020) has been prepared by CLC/TC 79, “Alarm systems”.

The following dates are fixed:

- latest date by which this document has to be (dop) 2021-01-27
implemented at national level by publication of
an identical national standard or by
endorsement
- latest date by which the national standards (dow) 2023-01-27
conflicting with this document have to be
withdrawn

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

The series EN 50131 will consist of the following parts, under the general title “*Alarm systems – Intrusion and hold-up systems*”:

Part 1	System requirements
Part 2–2	Intrusion detectors – Passive infrared detectors
Part 2–3	Requirements for microwave detectors
Part 2–4	Requirements for combined passive infrared and microwave detectors
Part 2–5	Requirements for combined passive infrared and ultrasonic detectors
Part 2–6	Opening contacts (magnetic)
Part 2–7-1	Intrusion detectors – Glass break detectors (acoustic)
Part 2–7-2	Intrusion detectors – Glass break detectors (passive)
Part 2–7-3	Intrusion detectors – Glass break detectors (active)
Part 3	Control and indicating equipment
Part 4	Warning devices
Part 5–3	Requirements for interconnections equipment using radio frequency techniques
Part 6	Power supplies
Part 7	Application guidelines
Part 8	Security fog devices
Part 13	Pyrotechnic Obscuration Security Devices

Introduction

This document applies to a Pyrotechnic obscuration security device. This document is part of the Intruder and Hold-up Alarm System (I&HAS) standard series.

The purpose of a pyrotechnic obscuration security device is to reduce the visibility in a protected area by the use of a non-toxic pyro obscuration system in order to form a barrier between the criminal and the criminal's intended target.

This document is intended to define the requirements of a security Pyrotechnic Obscuration Security Device and to set up performance criteria in order to comply with the purpose described above.

Pyrotechnic obscuration security devices are not explosives, they produce smoke by combustion.

Pyrotechnic obscuration security device differs from Fog obscuration devices in the generation and mean of obscuration. The safety requirements for pyrotechnical products (marketing, transport, manipulation, disposal...) are set forth in European regulation. This document is not intended to provide with criteria to assess the compliance with these regulations.

This document has been designed to be flexible enough to encourage and encompass future developments in the field of security obscuration device.

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1 Scope

This document specifies the requirements for pyrotechnic obscuration security devices as a part of an IAS. It covers application and performance and specifies the necessary tests and trials to ensure efficiency and reliability of such obscuration devices.

This document is not intended to cover Hold-up alarm systems, standalone or vehicular security pyrotechnic obscuration security device.

This document also gives guidelines on the criteria for design, installation, operation and maintenance of security pyrotechnic obscuration security device.

NOTE This document does not deal with CE marking, chemical (REACH/CLP) or transport regulation requirements for pyrotechnical devices set forth in the relevant European regulation and harmonized standards issued for this purpose.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 16263-3, *Pyrotechnic articles - Other pyrotechnic articles - Part 3: Categories and types*

EN 50130-4, *Alarm systems - Part 4: Electromagnetic compatibility - Product family standard: Immunity requirements for components of fire, intruder, hold up, CCTV, access control and social alarm systems*

EN 50130-5, *Alarm systems - Part 5: Environmental test methods*

EN 50131-1, *Alarm systems - Intrusion and hold-up systems - Part 1: System requirements*

EN 50131-5-3, *Alarm systems - Intrusion systems - Part 5-3: Requirements for interconnections equipment using radio frequency techniques*

EN 50131-6, *Alarm systems - Intrusion and hold-up systems - Part 6: Power supplies*

CLC/TS 50131-7, *Alarm systems - Intrusion and hold-up systems - Part 7: Application guidelines*

EN 60068-2-75, *Environmental testing - Part 2-75: Tests - Test Eh: Hammer tests*

EN 60529, *Degrees of protection provided by enclosures (IP Code)*

EN 60730 (series), *Automatic electrical controls for household and similar use*

EN 61508 (series), *Functional safety of electrical/electronic/programmable electronic safety-related systems*

EN 62262, *Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)*

3 Terms, definitions and abbreviations

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 50131-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

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